

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.1380000APPLICATION NO.
10/719,058FIRST NAMED INVENTOR
Gregory S. RawlinsFILING DATE
November 24, 2003GROUP
To Be Assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/DHM/	AA1	2,057,613	10/1936	Gardner			
/DHM/	AB1	2,241,078	05/1941	Vreeland			
/DHM/	AC1	2,270,385	01/1942	Skillman			
/DHM/	AD1	2,283,575	05/1942	Roberts			
/DHM/	AE1	2,358,152	09/1944	Earp			
/DHM/	AF1	2,410,350	10/1946	Labin <i>et al.</i>			
/DHM/	AG1	2,451,430	10/1948	Barone			
/DHM/	AH1	2,462,069	02/1949	Chatterjea <i>et al.</i>			
/DHM/	AI1	2,462,181	02/1949	Grosselfinger			

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/DHM/	AJ1	DE 42 37 692 C1	03/1994	DE			No
/DHM/	AK1	EP 0 035 166 A1	09/1981	EP			No
/DHM/	AL1	EP 0 193 899 B1	06/1990	EP			N/A
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/DHM/	AN	1	Aghvami, H. <i>et al.</i> , "Land Mobile Satellites Using the Highly Elliptic Orbits- The UK T-SAT Mobile Payload," <i>Fourth International Conference on Satellite Systems for Mobile Communications and Navigation</i> , IEE, pp. 147-153 (October 17-19, 1988).
/DHM/	AO	1	Akers, N.P. <i>et al.</i> , "RF Sampling Gates: a Brief Review," <i>IEE Proceedings</i> , IEE, Vol. 133, Part A, No. 1, pp. 45-49 (January 1986).
/DHM/	AP	1	Al-Ahmad, H.A.M. <i>et al.</i> , "Doppler Frequency Correction for a Non-Geostationary Communications Satellite. Techniques for CERS and T-SAT," <i>Electronics Division Colloquium on Low Noise Oscillators and Synthesizers</i> , IEE, pp. 4/1-4/5 (January 23, 1986).
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/DHM/	AA2	2,472,798	06/1949	Fredendall			
/DHM/	AB2	2,497,859	02/1950	Boughtwood <i>et al.</i>			
/DHM/	AC2	2,499,279	02/1950	Peterson			
/DHM/	AD2	2,802,208	08/1957	Hobbs			
/DHM/	AE2	2,985,875	05/1961	Grisdale <i>et al.</i>			
/DHM/	AF2	3,023,309	02/1962	Foulkes			
/DHM/	AG2	3,069,679	12/1962	Sweeney <i>et al.</i>			
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/DHM/	AK2	EP 0 411 840 A2	02/1991	EP			N/A
/DHM/	AL2	EP 0 411 840 A3	07/1991	EP			N/A
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/DHM/	AP	2	Alouini, M. <i>et al.</i> , "Channel Characterization and Modeling for Ka-Band Very Small Aperture Terminals," <i>Proceedings Of the IEEE</i> , IEEE, Vol. 85, No. 6, pp. 981-997 (June 1997).
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/DHM/	AA3	3,118,117	01/1964	King <i>et al.</i>			
/DHM/	AB3	3,226,643	12/1965	McNair			
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/DHM/	AD3	3,383,598	05/1968	Sanders			
/DHM/	AE3	3,384,822	05/1968	Miyagi			
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/DHM/	AA4	3,617,892	11/1971	Hawley <i>et al.</i>			
/DHM/	AB4	3,621,402	11/1971	Gardner			
/DHM/	AC4	3,623,160	11/1971	Giles <i>et al.</i>			
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/DHM/	AE4	3,629,696	12/1971	Bartelink			
/DHM/	AF4	3,662,268	05/1972	Gans <i>et al.</i>			
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/DHM/	AP	4	Banjo, O.P. <i>et al.</i> , "Tropospheric Amplitude Spectra Due to Absorption and Scattering in Earth-Space Paths," <i>Fourth International Conference on Antennas and Propagation (ICAP 85)</i> , IEE, pp. 77-82 (April 16-19, 1985).
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/DHM/	AA5	3,735,048	05/1973	Tomsa <i>et al.</i>			
/DHM/	AB5	3,806,811	04/1974	Thompson			
/DHM/	AC5	3,868,601	02/1975	MacAfee			
/DHM/	AD5	3,949,300	04/1976	Sadler			
/DHM/	AE5	3,967,202	06/1976	Batz			
/DHM/	AF5	3,980,945	09/1976	Bickford			
/DHM/	AG5	3,987,280	10/1976	Bauer			
/DHM/	AH5	3,991,277	11/1976	Hirata			
/DHM/	AI5	4,003,002	01/1977	Snijders <i>et al.</i>			

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/DHM/	AK5	EP 0 632 288 A3	07/1996	EP			N/A
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/DHM/	AO	5	Burgueño, A. <i>et al.</i> , "Influence of rain gauge integration time on the rain rate statistics used in microwave communications," <i>Annales des télécommunications</i> , International Union of Radio Science, pp. 522-527 (September/October 1988).
/DHM/	AP	5	Burgueño, A. <i>et al.</i> , "Long-Term Joint Statistical Analysis of Duration and Intensity of Rainfall Rate with Application to Microwave Communications," <i>Fifth International Conference on Antennas and Propagation (ICAP 87) Part 2: Propagation</i> , IEE, pp. 198-201 (March 30 - April 2, 1987).
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/DHM/	AR	5	Burgueño, A. <i>et al.</i> , "Spectral Analysis of 49 Years of Rainfall Rate and Relation to Fade Dynamics," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 38, No. 9, pp. 1359-1366 (September 1990).

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/DHM/	AA6	4,013,966	03/1977	Campbell			
/DHM/	AB6	4,019,140	04/1977	Swordlow			
/DHM/	AC6	4,035,732	07/1977	Lohrmann			
/DHM/	AD6	4,047,121	09/1977	Campbell			
/DHM/	AE6	4,066,841	01/1978	Young			
/DHM/	AF6	4,066,919	01/1978	Huntington			
/DHM/	AG6	4,081,748	03/1978	Batz			
/DHM/	AH6	4,130,765	12/1978	Arakelian <i>et al.</i>			
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/DHM/	AK6	EP 0 795 978 A2	09/1997	EP			N/A
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/DHM/	AM6	EP 0 862 274 A1	09/1998	EP			N/A

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/DHM/	AN	6	Catalan, C. and Vilar, E., "Approach for satellite slant path remote sensing," <i>Electronics Letters</i> , IEE, Vol. 34, No. 12, pp. 1238-1240 (June 11, 1998).
/DHM/	AO	6	Chan, P. et al., "A Highly Linear 1-GHz CMOS Downconversion Mixer," <i>European Solid State Circuits Conference</i> , IEEE Communication Society, pp. 210-213 (September 22-24, 1993).
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/DHM/	AQ	6	Copy of Declaration of Robert W. Cook filed in patent application Ser. No. 09/176,022, which is directed to related subject matter, 2 pages.
/DHM/	AR	6	Copy of Declaration of Alex Holtz filed in patent application Ser. No. 09/176,022, which is directed to related subject matter, 3 pages.

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/DHM/	AB7	4,170,764	10/1979	Salz <i>et al.</i>			
/DHM/	AC7	4,204,171	05/1980	Sutphin, Jr.			
/DHM/	AD7	4,210,872	07/1980	Gregorian			
/DHM/	AE7	4,245,355	01/1981	Pascoe <i>et al.</i>			
/DHM/	AF7	4,253,066	02/1981	Fisher <i>et al.</i>			
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/DHM/	AN	Z	Copy of Declaration of Richard C. Looke filed in patent application Ser. No. 09/176,022, which is directed to related subject matter, 2 pages.
/DHM/	AO	Z	Copy of Declaration of Charley D. Moses, Jr. filed in patent application Ser. No. 09/176,022, which is directed to related subject matter, 2 pages.
/DHM/	AP	Z	Copy of Declaration of Jeffrey L. Parker and David F. Sorrells, with attachment Exhibit 1, filed in patent application Ser. No. 09/176,022, which is directed to related subject matter, 130 pages.
/DHM/	AQ	Z	Dewey, R.J. and Collier, C.J., "Multi-Mode Radio Receiver," <i>Electronics Division Colloquium on Digitally Implemented Radios</i> , IEE, pp. 3/1-3/5 (October 18, 1985).
/DHM/	AR	Z	DIALOG File 347 (JAPIO) English Language Patent Abstract for JP 2-276351, 1 page (November 13, 1990 - Date of publication of application).

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/DHM/	AD8	4,356,558	10/1982	Owen <i>et al.</i>			
/DHM/	AE8	4,360,867	11/1982	Gonda			
/DHM/	AF8	4,363,132	12/1982	Collin			
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/DHM/	AL8	JP 2-276351	11/1990	JP			No
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/DHM/	AO	8	DIALOG File 347 (JAPIO) English Language Patent Abstract for JP 2-39632, 1 page (February 8, 1990 - Date of publication of application).
/DHM/	AP	8	DIALOG File 348 (European Patents) English Language Patent Abstract for EP 0 785 635 A1, 3 pages (December 26, 1996 - Date of publication of application).
/DHM/	AQ	8	DIALOG File 348 (European Patents) English Language Patent Abstract for EP 35166 A1, 2 pages (February 18, 1981 - Date of publication of application).
/DHM/	AR	8	"DSO takes sampling rate to 1 Ghz," <i>Electronic Engineering</i> , Morgan Gramplan Publishers, Vol. 59, No. 723, pp. 77 and 79 (March 1987).

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/DHM/	AE9	4,472,785	09/1984	Kasuga			
/DHM/	AF9	4,479,226	10/1984	Prabhu <i>et al.</i>			
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/DHM/	AN	9	Erdi, G. and Henneuse, P.R., "A Precision FET-Less Sample-and-Hold with High Charge-to-Droop Current Ratio," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-13, No. 6, pp. 864-873 (December 1978).
/DHM/	AO	9	Faulkner, N.D. and Vilar, E., "Subharmonic Sampling for the Measurement of Short Term Stability of Microwave Oscillators," <i>IEEE Transactions on Instrumentation and Measurement</i> , IEEE, Vol. IM-32, No. 1, pp. 208-213 (March 1983).
/DHM/	AP	9	Faulkner, N.D. <i>et al.</i> , "Sub-Harmonic Sampling for the Accurate Measurement of Frequency Stability of Microwave Oscillators," <i>CPEM 82 Digest: Conference on Precision Electromagnetic Measurements</i> , IEEE, pp. M-10 and M-11 (1982).
/DHM/	AQ	9	Faulkner, N.D. and Vilar, E., "Time Domain Analysis of Frequency Stability Using Non-Zero Dead-Time Counter Techniques," <i>CPEM 84 Digest Conference on Precision Electromagnetic Measurements</i> , IEEE, pp. 81-82 (1984).
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	FIRST NAMED INVENTOR Gregory S. Rawlins	
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/DHM/	AA10	4,504,803	03/1985	Lee <i>et al.</i>			
/DHM/	AB10	4,517,519	05/1985	Mukaiyama			
/DHM/	AC10	4,517,520	05/1985	Ogawa			
/DHM/	AD10	4,518,935	05/1985	van Roermund			
/DHM/	AE10	4,521,892	06/1985	Vance <i>et al.</i>			
/DHM/	AF10	4,563,773	07/1986	Dixon, Jr. <i>et al.</i>			
/DHM/	AG10	4,577,157	03/1986	Reed			
/DHM/	AH10	4,583,239	04/1986	Vance			
/DHM/	AI10	4,591,736	05/1986	Hirao <i>et al.</i>			

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/DHM/	AK10	WO 98/00953 A1	01/1998	PCT			N/A
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/DHM/	AP	10	Gibbins, C.J. and Chadha, R., "Millimetre-wave propagation through hydrocarbon flame," <i>IEE Proceedings</i> , IEE, Vol. 134, Pt. H, No.2, pp. 169-173 (April 1987).
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/DHM/	AR	10	Gossard, E.E., "Clear weather meteorological effects on propagation at frequencies above 1 Ghz," <i>Radio Science</i> , American Geophysical Union, Vol. 16, No. 5, pp. 589-608 (September - October 1981).

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/DHM/	AA11	4,602,220	07/1986	Kurihara			
/DHM/	AB11	4,603,300	07/1986	Welles, II <i>et al.</i>			
/DHM/	AC11	4,612,464	09/1986	Ishikawa <i>et al.</i>			
/DHM/	AD11	4,612,518	09/1986	Gans <i>et al.</i>			
/DHM/	AE11	4,616,191	10/1986	Galani <i>et al.</i>			
/DHM/	AF11	4,621,217	11/1986	Saxe <i>et al.</i>			
/DHM/	AG11	4,628,517	12/1986	Schwarz <i>et al.</i>			
/DHM/	AH11	4,634,998	01/1987	Crawford			
/DHM/	AI11	4,648,021	03/1987	Alberkrack			

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/DHM/	AK11	FR 2 245 130	04/1975	FR			Yes (See AP50)
/DHM/	AL11	DE 35 41 031 A1	05/1986	DE			Yes (See AR50)
/DHM/	AM11	EP 0 732 803 A1	09/1996	EP			Yes (See AN51)

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/DHM/	AN	11	Gregorian, R. <i>et al.</i> , "Switched-Capacitor Circuit Design," <i>Proceedings of the IEEE</i> , IEEE, Vol. 71, No. 8, pp. 941-966 (August 1983).				
/DHM/	AO	11	Groshong <i>et al.</i> , "Undersampling Techniques Simplify Digital Radio," <i>Electronic Design</i> , Penton Publishing, pp. 67-68, 70, 73-75 and 78 (May 23, 1991).				
/DHM/	AP	11	Grove, W.M., "Sampling for Oscilloscopes and Other RF Systems: Dc through X-Band," <i>IEEE Transactions on Microwave Theory and Techniques</i> , IEEE, pp. 629-635 (December 1966).				
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/DHM/	AR	11	Haddon, J. and Vilar, E., "Scattering Induced Microwave Scintillations from Clear Air and Rain on Earth Space Paths and the Influence of Antenna Aperture," <i>IEEE Transactions on Antennas and Propagation</i> , IEEE, Vol. AP-34, No. 5, pp. 646-657 (May 1986).				

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/DHM/	AB12	4,675,882	06/1987	Lillie <i>et al.</i>			
/DHM/	AC12	4,688,253	08/1987	Gumm			
/DHM/	AD12	4,716,376	12/1987	Daudelin			
/DHM/	AE12	4,716,388	12/1987	Jacobs			
/DHM/	AF12	4,718,113	01/1988	Rother <i>et al.</i>			
/DHM/	AG12	4,726,041	02/1988	Prohaska <i>et al.</i>			
/DHM/	AH12	4,733,403	03/1988	Simone			
/DHM/	AI12	4,734,591	03/1988	Ichitsubo			

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/DHM/	AJ12	DE 197 35 798 C1	07/1998	DE			Yes (See AP51)
/DHM/	AK12	WO 98/40968 A2&A3	09/1998	PCT			N/A
/DHM/	AL12	EP 0 529 836 A1	03/1993	EP			N/A
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/DHM/	AO	12	Herben, M.H.A.J., "Amplitude and Phase Scintillation Measurements on 8-2 km Line-Of-Sight Path at 30 Ghz," <i>Electronics Letters</i> , IEE, Vol. 18, No. 7, pp. 287-289 (April 1, 1982).
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/DHM/	AR	12	Hewitt, A. and Vilar, E., "Selective fading on LOS Microwave Links: Classical and Spread-Spectrum Measurement Techniques," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 36, No. 7, pp. 789-796 (July 1988).

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/DHM/	AA13	4,737,969	04/1988	Steel <i>et al.</i>			
/DHM/	AB13	4,743,858	05/1988	Everard			
/DHM/	AC13	4,745,463	05/1988	Lu			
/DHM/	AD13	4,751,468	06/1988	Agoston			
/DHM/	AE13	4,757,538	07/1988	Zink			
/DHM/	AF13	4,768,187	08/1988	Marshall			
/DHM/	AG13	4,769,612	09/1988	Tamakoshi <i>et al.</i>			
/DHM/	AH13	4,785,463	11/1988	Janc <i>et al.</i>			
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/DHM/	AK13	WO 91/18445 A1	11/1991	PCT			N/A
/DHM/	AL13	WO 99/23755 A1	05/1999	PCT			N/A
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/DHM/	AO	13	Howard, I.M. and Swansson, N.S., "Demodulating High Frequency Resonance Signals for Bearing Fault Detection," <i>The Institution of Engineers Australia Vibration and Noise Conference</i> , Institution of Engineers, Australia, pp. 115-121 (September 18-20, 1990).
/DHM/	AP	13	Hu, X., A Switched-Current Sample-and-Hold Amplifier for FM Demodulation, Thesis for Master of Applied Science, Dept. of Electrical and Computer Engineering, University of Toronto, UMI Dissertation Services, pp. 1-64 (1995).
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/DHM/	David Malzahn	4,801,823	01/1989	Yokoyama			
/DHM/	AB14	4,806,790	02/1989	Sone			
/DHM/	AC14	4,810,904	03/1989	Crawford			
/DHM/	AD14	4,810,976	03/1989	Cowley <i>et al.</i>			
/DHM/	AE14	4,811,362	03/1989	Yester, Jr. <i>et al.</i>			
/DHM/	AF14	4,819,252	04/1989	Christopher			
/DHM/	AG14	4,833,445	05/1989	Buchele			
/DHM/	AH14	4,862,121	08/1989	Hochschild <i>et al.</i>			
/DHM/	AI14	4,868,654	09/1989	Juri <i>et al.</i>			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
/DHM/	AJ14	JP 8-32556	02/1996	JP			No
/DHM/	AK14	JP 8-139524	05/1996	JP			No
/DHM/	AL14	JP 59-144249	08/1984	JP			No
/DHM/	AM14	JP 63-54002	03/1988	JP			No

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/DHM/	AP	14	Janssen, J.M.L. and Michels, A.J., "An Experimental 'Stroboscopic' Oscilloscope for Frequencies up to about 50 Mc/s: II. Electrical Build-Up," <i>Philips Technical Review</i> , Philips Research Laboratories, Vol. 12, No. 3, pp. 73-82 (September 1950).
/DHM/	AQ	14	Jondral, V.F. <i>et al.</i> , "Doppler Profiles for Communication Satellites," <i>Frequenz</i> , Herausberger, pp. 111-116 (May-June 1996).
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/DHM/	AA15	4,870,659	09/1989	Oishi <i>et al.</i>			
/DHM/	AB15	4,871,987	10/1989	Kawase			
/DHM/	AC15	4,885,587	12/1989	Wiegand <i>et al.</i>			
/DHM/	AD15	4,885,756	12/1989	Fontanes <i>et al.</i>			
/DHM/	AE15	4,888,557	12/1989	Puckette, IV <i>et al.</i>			
/DHM/	AF15	4,890,302	12/1989	Multwijk			
/DHM/	AG15	4,893,316	01/1990	Janc <i>et al.</i>			
/DHM/	AH15	4,893,341	01/1990	Gehring			
/DHM/	AI15	4,894,766	01/1990	De Agro			

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/DHM/	AJ15	JP 6-237276	08/1994	JP			No
/DHM/	AK15	JP 8-23359	01/1996	JP			No
/DHM/	AL15	JP 47-2314	02/1972	JP			Yes (Doc. AP53)
/DHM/	AM15	JP 58-7903	01/1983	JP			Partial (Doc. AQ53)

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/DHM/	AN	15	Karasawa, Y. <i>et al.</i> , "A New Prediction Method for Tropospheric Scintillation on Earth-Space Paths," <i>IEEE Transactions on Antennas and Propagation</i> , IEEE Antennas and Propagation Society, Vol. 36, No. 11, pp. 1608-1614 (November 1988).
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/DHM/	AR	15	Larkin, K.G., "Efficient demodulator for bandpass sampled AM signals," <i>Electronics Letters</i> , IEE, Vol. 32, No. 2, pp. 101-102 (January 18, 1996).

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/DHM/	AA16	4,896,152	01/1990	Tiemann			
/DHM/	AB16	4,902,979	02/1990	Puckette, IV			
/DHM/	AC16	4,908,579	03/1990	Tawfik <i>et al.</i>			
/DHM/	AD16	4,910,752	03/1990	Yester, Jr. <i>et al.</i>			
/DHM/	AE16	4,914,405	04/1990	Wells			
/DHM/	AF16	4,920,510	04/1990	Senderowicz <i>et al.</i>			
/DHM/	AG16	4,922,452	05/1990	Larsen <i>et al.</i>			
/DHM/	AH16	4,931,921	06/1990	Anderson			
/DHM/	AI16	4,944,025	07/1990	Gehring <i>et al.</i>			

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/DHM/	AK16	JP 60-58705	04/1985	JP			No
/DHM/	AL16	JP 4-123614	04/1992	JP			No
/DHM/	AM16	JP 4-127601	04/1992	JP			No

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/DHM/	AB17	4,965,467	10/1990	Biliterijst			
/DHM/	AC17	4,967,160	10/1990	Quievy <i>et al.</i>			
/DHM/	AD17	4,970,703	11/1990	Hariharan <i>et al.</i>			
/DHM/	AE17	4,982,353	01/1991	Jacob <i>et al.</i>			
/DHM/	AF17	4,984,077	01/1991	Uchida			
/DHM/	AG17	4,995,055	02/1991	Weinberger <i>et al.</i>			
/DHM/	AH17	5,003,621	03/1991	Gailus			
/DHM/	AI17	5,005,169	04/1991	Bronder <i>et al.</i>			

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/DHM/	AK17	JP 5-175734	07/1993	JP			No
/DHM/	AL17	JP 7-154344	06/1995	JP			No
/DHM/	AM17	JP 7-307620	11/1995	JP			No

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/DHM/	AR	17	Madani, K. and Aithison, C.S., "A 20 Ghz Microwave Sampler," <i>IEEE Transactions on Microwave Theory and Techniques</i> , IEEE Microwave Theory and Techniques Society, Vol. 40, No. 10, pp. 1960-1963 (October 1992).

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	FIRST NAMED INVENTOR Gregory S. Rawlins	
	FILING DATE November 24, 2003	GROUP To Be Assigned

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/DHM/	AB18	5,010,585	04/1991	Garcia			
/DHM/	AC18	5,014,304	05/1991	Nicollini <i>et al.</i>			
/DHM/	AD18	5,015,963	05/1991	Sutton			
/DHM/	AE18	5,017,924	05/1991	Guilbertau <i>et al.</i>			
/DHM/	AF18	5,020,149	05/1991	Hemmie			
/DHM/	AG18	5,020,154	05/1991	Zierhut			
/DHM/	AH18	5,052,050	09/1991	Collier <i>et al.</i>			
/DHM/	AI18	5,065,409	11/1991	Hughes <i>et al.</i>			

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/DHM/	AK18	JP 63-65587	03/1988	JP			No
/DHM/	AL18	JP 63-153691	06/1988	JP			No
/DHM/	AM18	EP 0 276 130 A2&A3	07/1988	EP			N/A

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/DHM/	AO	18	Martin, K. and Sedra, A.S., "Switched-Capacitor Building Blocks for Adaptive Systems," <i>IEEE Transactions on Circuits and Systems</i> , IEEE Circuits and Systems Society, Vol. CAS-28, No. 6, pp. 576-584 (June 1981).
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/DHM/	AB19	5,091,921	02/1992	Minami			
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/DHM/	AD19	5,095,536	03/1992	Loper			
/DHM/	AE19	5,111,152	05/1992	Makino			
/DHM/	AF19	5,113,094	05/1992	Grace <i>et al.</i>			
/DHM/	AG19	5,113,129	05/1992	Hughes			
/DHM/	AH19	5,122,765	06/1992	Pataut			
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/DHM/	AQ	19	Moulsley, T.J. <i>et al.</i> , "The efficient acquisition and processing of propagation statistics," <i>Journal of the Institution of Electronic and Radio Engineers</i> , IERE, Vol. 55, No. 3, pp. 97-103 (March 1985).
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/DHM/	AB20	5,140,705	08/1992	Kosuga			
/DHM/	AC20	5,150,124	09/1992	Moore <i>et al.</i>			
/DHM/	AD20	5,151,661	09/1992	Caldwell <i>et al.</i>			
/DHM/	AE20	5,159,710	10/1992	Cusdin			
/DHM/	AF20	5,170,414	12/1992	Silvian			
/DHM/	AG20	5,172,070	12/1992	Hiraiwa <i>et al.</i>			
/DHM/	AH20	5,191,459	03/1993	Thompson <i>et al.</i>			
/DHM/	AI20	5,204,642	04/1993	Ashgar <i>et al.</i>			

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/DHM/	AO	20	"New zero IF chipset from Philips," <i>Electronic Engineering</i> , United News & Media, Vol. 67, No. 825, p. 10 (September 1995).
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/DHM/	AA21	5,212,827	05/1993	Meszko <i>et al.</i>			
/DHM/	AB21	5,214,787	05/1993	Karkota, Jr.			
/DHM/	AC21	5,220,583	06/1993	Solomon			
/DHM/	AD21	5,220,680	06/1993	Lee			
/DHM/	AE21	5,222,144	06/1993	Whitehart			
/DHM/	AF21	5,230,097	07/1993	Currie <i>et al.</i>			
/DHM/	AG21	5,239,686	08/1993	Downey			
/DHM/	AH21	5,241,561	08/1993	Barnard			
/DHM/	AI21	5,249,203	09/1993	Loper			

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/DHM/	AK21	FR 2 669 787 A1	05/1992	FR			No
/DHM/	AL21	GB 2 324 919 A	11/1998	GB			N/A
/DHM/	AM21	JP 61-30821	02/1986	JP			No

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/DHM/	AB22	5,251,232	10/1993	Nonami			
/DHM/	AC22	5,260,970	11/1993	Henry <i>et al.</i>			
/DHM/	AD22	5,263,194	11/1993	Ragan			
/DHM/	AE22	5,263,196	11/1993	Jasper			
/DHM/	AF22	5,267,023	11/1993	Kawasaki			
/DHM/	AG22	5,278,826	01/1994	Murphy <i>et al.</i>			
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/DHM/	AK22	EP 0 643 477 A2 & A3	03/1995	EP			N/A
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/DHM/	AN	22	Press Release, "Parkervision, Inc. Announces the Appointment of Michael Baker to the New Position of National Sales Manager," Lippert/Heilshorn and Associates, 1 Page (April 7, 1994).				
/DHM/	AO	22	Press Release, "Parkervision's Cameraman Well-Received By Distance Learning Market," Lippert/Heilshorn and Associates, 2 Pages (April 8, 1994).				
/DHM/	AP	22	Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and Associates, 2 Pages (April 26, 1994).				
/DHM/	AQ	22	Press Release, "Parkervision, Inc. Announces The Retirement of William H. Fletcher, Chief Financial Officer," Lippert/Heilshorn and Associates, 1 Page (May 11, 1994).				
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/DHM/	AB23	5,303,417	04/1994	Laws			
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/DHM/	AD23	5,315,583	05/1994	Murphy <i>et al.</i>			
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/DHM/	AF23	5,325,204	06/1994	Scarpa			
/DHM/	AG23	5,337,014	08/1994	Najle <i>et al.</i>			
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/DHM/	AJ23	WO 00/31659 A1	06/2000	PCT			N/A
/DHM/	AK23	JP 9-36664	02/1997	JP			No
/DHM/	AL23	DE 196 48 915 A1	06/1998	DE			Yes (Doc. AO59)
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

/DHM/	AN	23	Press Release, "Parkervision, Inc. Announces Appointments to its National Sales Force," Lippert/Heilshorn and Associates, 2 Pages (June 17, 1994).
/DHM/	AO	23	Press Release, "Parkervision, Inc. Announces Second Quarter and Six Months Financial Results," Lippert/Heilshorn and Associates, 3 Pages (August 9, 1994).
/DHM/	AP	23	Press Release, "Parkervision, Inc. Announces Third Quarter and Nine Months Financial Results," Lippert/Heilshorn and Associates, 3 Pages (October 28, 1994).
/DHM/	AQ	23	Press Release, "Parkervision, Inc. Announces First Significant Dealer Sale of Its <i>Camaraman</i> ® System II," Lippert/Heilshorn and Associates, 2 Pages (November 7, 1994).
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/DHM/	AA24	5,355,114	10/1994	Sutterlin <i>et al.</i>			
/DHM/	AB24	5,361,408	11/1994	Watanabe <i>et al.</i>			
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/DHM/	AG24	5,388,063	02/1995	Takatori <i>et al.</i>			
/DHM/	AH24	5,390,364	02/1995	Webster <i>et al.</i>			
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	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

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/DHM/	AN	<u>24</u>	Press Release, "Parkervision, Inc. Announces Joint Product Developments With VTEL," Lippert/Heilshorn and Associates, 2 Pages (March 21, 1995).
/DHM/	AO	<u>24</u>	Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and Associates, 3 Pages (April 28, 1995).
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/DHM/	AC25	5,410,743	04/1995	Seely <i>et al.</i>			
/DHM/	AD25	5,412,352	05/1995	Graham			
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/DHM/	AG25	5,423,082	06/1995	Cygan <i>et al.</i>			
/DHM/	AH25	5,428,638	06/1995	Cioffi <i>et al.</i>			
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	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

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/DHM/	AN	<u>25</u>	Press Release, "Parkervision, Inc. Announces Second Quarter and Six Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (July 31, 1995).
/DHM/	AO	<u>25</u>	Press Release, "Parkervision, Inc. Expands Its Cameraman System II Product Line," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (September 22, 1995).
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/DHM/	AD26	5,444,416	08/1995	Ishikawa <i>et al.</i>			
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	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

/DHM/	AN	<u>26</u>	Press Release, "Parkervision's Cameraman Personal Locator Camera System Wins Telecon XV Award," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (November 1, 1995).
/DHM/	AO	<u>26</u>	Press Release, "Parkervision, Inc. Announces Purchase Commitment From VTEL Corporation," Parkervision Marketing and Manufacturing Headquarters, 1 Page (February 26, 1996).
/DHM/	AP	<u>26</u>	Press Release, "ParkerVision, Inc. Announces Fourth Quarter and Year End Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (February 27, 1996).
/DHM/	AQ	<u>26</u>	Press Release, "ParkerVision, Inc. Expands its Product Line," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (March 7, 1996).
/DHM/	AR	<u>26</u>	Press Release, "ParkerVision Files Patents for its Research of Wireless Technology," Parkervision Marketing and Manufacturing Headquarters, 1 Page (March 28, 1996).

EXAMINER /David Malzahn/	DATE CONSIDERED 05/17/2007
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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1744.1380000	APPLICATION NO. 10/719,058
	FIRST NAMED INVENTOR Gregory S. Rawlins	
	FILING DATE November 24, 2003	GROUP To Be Assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/DHM/	AA27	5,454,007	09/1995	Dutta			
/DHM/	AB27	5,454,009	09/1995	Fruit <i>et al.</i>			
/DHM/	AC27	5,463,356	10/1995	Palmer			
/DHM/	AD27	5,463,357	10/1995	Hobden			
/DHM/	AE27	5,465,071	11/1995	Kobayashi <i>et al.</i>			
/DHM/	AF27	5,465,410	11/1995	Hiben <i>et al.</i>			
/DHM/	AG27	5,465,415	11/1995	Bien			
/DHM/	AH27	5,471,162	11/1995	McEwan			
/DHM/	AI27	5,479,120	12/1995	McEwan			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

/DHM/	AN	<u>27</u>	Press Release, "Parkervision, Inc. Announces First Significant Sale of Its Cameraman® Three-Chip System," Parkervision Marketing and Manufacturing Headquarters, 2 pages (April 12, 1996).
/DHM/	AO	<u>27</u>	Press Release, "Parkervision, Inc. Introduces New Product Line For Studio Production Market," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (April 15, 1996).
/DHM/	AP	<u>27</u>	Press Release, "Parkervision, Inc. Announces Private Placement of 800,000 Shares," Parkervision Marketing and Manufacturing Headquarters, 1 Page (April 15, 1996).
/DHM/	AQ	<u>27</u>	Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (April 30, 1996).
/DHM/	AR	<u>27</u>	Press Release, "ParkerVision's New Studio Product Wins Award," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (June 5, 1996).

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/DHM/	AA28	5,479,447	12/1995	Chow <i>et al.</i>			
/DHM/	AB28	5,483,193	01/1996	Kennedy <i>et al.</i>			
/DHM/	AC28	5,483,549	01/1996	Weinberg <i>et al.</i>			
/DHM/	AD28	5,483,691	01/1996	Heck <i>et al.</i>			
/DHM/	AE28	5,490,173	02/1996	Whikehart <i>et al.</i>			
/DHM/	AF28	5,493,581	02/1996	Young <i>et al.</i>			
/DHM/	AG28	5,493,721	02/1996	Reis			
/DHM/	AH28	5,495,200	02/1996	Kwan <i>et al.</i>			
/DHM/	AI28	5,495,202	02/1996	Hsu			

FOREIGN PATENT DOCUMENTS

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	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

/DHM/	AN	<u>28</u>	Press Release, "Parkervision, Inc. Announces Second Quarter and Six Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (August 1, 1996).
/DHM/	AO	<u>28</u>	Press Release, "Parkervision, Inc. Announces Third Quarter and Nine Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 29, 1996).
/DHM/	AP	<u>28</u>	Press Release, "PictureTel and ParkerVision Sign Reseller Agreement," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 30, 1996).
/DHM/	AQ	<u>28</u>	Press Release, "CLI and ParkerVision Bring Enhanced Ease-of-Use to Videoconferencing," CLI/Parkervision, 2 Pages (January 20, 1997).
/DHM/	AR	<u>28</u>	Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (February 27, 1997).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/DHM/	AA29	5,495,500	02/1996	Jovanovich <i>et al.</i>			
/DHM/	AB29	5,499,267	03/1996	Ohe <i>et al.</i>			
/DHM/	AC29	5,500,758	03/1996	Thompson <i>et al.</i>			
/DHM/	AD29	5,517,688	05/1996	Fajen <i>et al.</i>			
/DHM/	AE29	5,519,890	05/1996	Pinckley			
/DHM/	AF29	5,523,719	06/1996	Longo <i>et al.</i>			
/DHM/	AG29	5,523,726	06/1996	Kroeger <i>et al.</i>			
/DHM/	AH29	5,523,760	06/1996	McEwan			
/DHM/	AI29	5,539,770	07/1996	Ishigaki			

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
/DHM/	AN	<u>29</u>	Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (April 29, 1997).				
/DHM/	AO	<u>29</u>	Press Release, "NEC and Parkervision Make Distance Learning Closer," NEC America, 2 Pages (June 18, 1997).				
/DHM/	AP	<u>29</u>	Press Release, "Parkervision Supplies JPL with Robotic Cameras, Cameraman Shot Director for Mars Mission," Parkervision Marketing and Manufacturing Headquarters, 2 pages (July 8, 1997).				
/DHM/	AQ	<u>29</u>	Press Release, "ParkerVision and IBM Join Forces to Create Wireless Computer Peripherals," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (July 23, 1997).				
/DHM/	AR	<u>29</u>	Press Release, "ParkerVision, Inc. Announces Second Quarter and Six Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (July 31, 1997).				

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/DHM/	AA30	5,555,453	09/1996	Kajimoto <i>et al.</i>			
/DHM/	AB30	5,557,641	09/1996	Weinberg			
/DHM/	AC30	5,557,642	09/1996	Williams			
/DHM/	AD30	5,579,341	11/1996	Smith <i>et al.</i>			
/DHM/	AE30	5,579,347	11/1996	Lindquist <i>et al.</i>			
/DHM/	AF30	5,584,068	12/1996	Mohindra			
/DHM/	AG30	5,592,131	01/1997	Labreche <i>et al.</i>			
/DHM/	AH30	5,602,847	02/1997	Pagano <i>et al.</i>			
/DHM/	AI30	5,602,868	02/1997	Wilson			

FOREIGN PATENT DOCUMENTS

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	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

/DHM/	AN	<u>30</u>	Press Release, "Parkervision, Inc. Announces Private Placement of 990,000 Shares," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (September 8, 1997).
/DHM/	AO	<u>30</u>	Press Release, "Wal-Mart Chooses Parkervision for Broadcast Production," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 24, 1997).
/DHM/	AP	<u>30</u>	Press Release, "Parkervision, Inc. Announces Third Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (October 30, 1997).
/DHM/	AQ	<u>30</u>	Press Release, "ParkerVision Announces Breakthrough in Wireless Radio Frequency Technology," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (December 10, 1997).
/DHM/	AR	<u>30</u>	Press Release, "Parkervision, Inc. Announces the Appointment of Joseph F. Skovron to the Position of Vice President, Licensing - Wireless Technologies," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (January 9, 1998).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/DHM/	AA31	5,604,732	02/1997	Kim <i>et al.</i>			
/DHM/	AB31	5,608,531	03/1997	Honda <i>et al.</i>			
/DHM/	AC31	5,610,946	03/1997	Tanaka <i>et al.</i>			
/DHM/	AD31	RE 35,494	04/1997	Nicollini			
/DHM/	AE31	5,617,451	04/1997	Mimura <i>et al.</i>			
/DHM/	AF31	5,619,538	04/1997	Sempel <i>et al.</i>			
/DHM/	AG31	5,621,455	04/1997	Rogers <i>et al.</i>			
/DHM/	AH31	5,630,227	05/1997	Bella <i>et al.</i>			
/DHM/	AI31	5,640,415	06/1997	Pandula			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

/DHM/	AN	31	Press Release, "Parkervision Announces Existing Agreement with IBM Terminates-- Company Continues with Strategic Focus Announced in December," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (January 27, 1998).
/DHM/	AO	31	Press Release, "Laboratory Tests Verify Parkervision Wireless Technology," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (March 3, 1998).
/DHM/	AP	31	Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (March 5, 1998).
/DHM/	AQ	31	Press Release, "Parkervision Awarded Editors' Pick of Show for NAB 98," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (April 15, 1998).
/DHM/	AR	31	Press Release, "Parkervision Announces First Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (May 4, 1998).

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/DHM/	AA32	5,640,424	06/1997	Banavong <i>et al.</i>			
/DHM/	AB32	5,640,428	06/1997	Abe <i>et al.</i>			
/DHM/	AC32	5,640,698	06/1997	Shen <i>et al.</i>			
/DHM/	AD32	5,648,985	07/1997	Bjerede <i>et al.</i>			
/DHM/	AE32	5,650,785	07/1997	Rodal			
/DHM/	AF32	5,661,424	08/1997	Tang			
/DHM/	AG32	5,663,878	09/1997	Walker			
/DHM/	AH32	5,663,986	09/1997	Striffler			
/DHM/	AI32	5,668,836	09/1997	Smith <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No



OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

/DHM/	AN	32	Press Release, "Parkervision 'DIRECT2DATA' Introduced in Response to Market Demand," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (July 9, 1998).
/DHM/	AO	32	Press Release, "Parkervision Expands Senior Management Team," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (July 29, 1998).
/DHM/	AP	32	Press Release, "Parkervision Announces Second Quarter and Six Month Financial Results," Parkervision Marketing and Manufacturing Headquarters, 4 Pages (July 30, 1998).
/DHM/	AQ	32	Press Release, "Parkervision Announces Third Quarter and Nine Month Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (October 30, 1998).
/DHM/	AR	32	Press Release, "Questar Infocomm, Inc. Invests \$5 Million in Parkervision Common Stock," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (December 2, 1998).



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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA33	5,680,078	10/1997	Arie			
	AB33	5,680,418	10/1997	Croft <i>et al.</i>			
	AC33	5,689,413	11/1997	Jaramillo <i>et al.</i>			
	AD33	5,699,006	12/1997	Zelev <i>et al.</i>			
	AE33	5,705,955	01/1998	Freeburg <i>et al.</i>			
	AF33	5,710,998	01/1998	Opas			
	AG33	5,714,910	02/1998	Skoczen <i>et al.</i>			
	AH33	5,715,281	02/1998	Bly <i>et al.</i>			
	AI33	5,721,514	02/1998	Crockett <i>et al.</i>			

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AN	<u>33</u>	Press Release, "Parkervision Adds Two New Directors," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (March 5, 1999).
1	AO	<u>33</u>	Press Release, "Parkervision Announces Fourth Quarter and Year End Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (March 5, 1999).
	AP	<u>33</u>	Press Release, "Joint Marketing Agreement Offers New Automated Production Solution," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (April 13, 1999).
	AQ	<u>33</u>	"Project COST 205: Scintillations in Earth-satellite links," <i>Alta Frequenza: Scientific Review in Electronics</i> , AEI, Vol. LIV, No. 3, pp. 209-211 (May-June, 1985).
	AR	<u>33</u>	Razavi, B., <i>RF Microelectronics</i> , Prentice-Hall, pp. 147-149 (1998).

EXAMINER	<u>D. H. Malzahn</u>	DATE CONSIDERED	<u>5/17/07</u>
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/DHM/	AA34	5,724,002	03/1998	Hullick			
/DHM/	AB34	5,724,653	03/1998	Baker <i>et al.</i>			
/DHM/	AC34	5,729,577	03/1998	Chen			
/DHM/	AD34	5,729,829	03/1998	Talwar <i>et al.</i>			
/DHM/	AE34	5,732,333	03/1998	Cox <i>et al.</i>			
/DHM/	AF34	5,736,895	04/1998	Yu <i>et al.</i>			
/DHM/	AG34	5,737,035	04/1998	Rotzoll			
/DHM/	AH34	5,742,189	04/1998	Yoshida <i>et al.</i>			
/DHM/	AI34	5,748,683	05/1998	Smith <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

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	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

/DHM/	AN	<u>34</u>	Reeves, R.J.D., "The Recording and Collocation of Waveforms (Part 1)," <i>Electronic Engineering</i> , Morgan Brothers Limited, Vol. 31, No. 373, pp. 130-137 (March 1959).
/DHM/	AO	<u>34</u>	Reeves, R.J.D., "The Recording and Collocation of Waveforms (Part 2)," <i>Electronic Engineering</i> , Morgan Brothers Limited, Vol. 31, No. 374, pp. 204-212 (April 1959).
/DHM/	AP	<u>34</u>	Rein, H.M. and Zahn, M., "Subnanosecond-Pulse Generator with Variable Pulsewidth Using Avalanche Transistors," <i>Electronics Letters</i> , IEE, Vol. 11, No. 1, pp. 21-23 (January 9, 1975).
/DHM/	AQ	<u>34</u>	Riad, S.M. and Nahman, N.S., "Modeling of the Feed-through Wideband (DC to 12.4 Ghz) Sampling-Head," <i>IEEE MTT-S International Microwave Symposium Digest</i> , IEEE, pp. 267-269 (June 27-29, 1978).
/DHM/	AR	<u>34</u>	Rizzoli, V. <i>et al.</i> , "Computer-Aided Noise Analysis of MESFET and HEMT Mixers," <i>IEEE Transactions on Microwave Theory and Techniques</i> , IEEE, Vol. 37, No. 9, pp. 1401-1410 (September 1989).

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/DHM/	AA35	RE 35,829	06/1998	Sanderford, Jr.			
/DHM/	AB35	5,760,645	06/1998	Comte <i>et al.</i>			
/DHM/	AC35	5,764,087	06/1998	Clark			
/DHM/	AD35	5,767,726	06/1998	Wang			
/DHM/	AE35	5,768,118	06/1998	Faulk <i>et al.</i>			
/DHM/	AF35	5,771,442	06/1998	Wang <i>et al.</i>			
/DHM/	AG35	5,777,692	07/1998	Ghosh			
/DHM/	AH35	5,777,771	07/1998	Smith			
/DHM/	AI35	5,786,844	07/1998	Rogers <i>et al.</i>			

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	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

/DHM/	AN	35	Rowe, H.E., <i>Signals and Noise in Communication Systems</i> , D. Van Nostrand Company, Inc., Princeton, New Jersey, including, for example, Chapter V, Pulse Modulation Systems (1965).
/DHM/	AO	35	Rücker, F. and Dintelmann, F., "Effect of Antenna Size on OTS Signal Scintillations and Their Seasonal Dependence," <i>Electronics Letters</i> , IEE, Vol. 19, No. 24, pp. 1032-1034 (November 24, 1983).
/DHM/	AP	35	Russell, R. and Hoare, L., "Millimeter Wave Phase Locked Oscillators," <i>Military Microwaves '78 Conference Proceedings</i> , Microwave Exhibitions and Publishers, pp. 238-242 (October 25-27, 1978).
/DHM/	AQ	35	Sabel, L.P., "A DSP Implementation of a Robust Flexible Receiver/Demultiplexer for Broadcast Data Satellite Communications," <i>The Institution of Engineers Australia Communications Conference</i> , Institution of Engineers, Australia, pp. 218-223 (October 16-18, 1990).
/DHM/	AR	35	Salous, S., "IF digital generation of FMCW waveforms for wideband channel characterization," <i>IEE Proceedings-I</i> , IEE, Vol. 139, No. 3, pp. 281-288 (June 1992).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/DHM/	AA36	5,793,801	08/1998	Fertner			
/DHM/	AB36	5,793,818	08/1998	Claydon <i>et al.</i>			
/DHM/	AC36	5,802,463	09/1998	Zuckerman			
/DHM/	AD36	5,809,060	09/1998	Cafarella <i>et al.</i>			
/DHM/	AE36	5,818,582	10/1998	Fernandez <i>et al.</i>			
/DHM/	AF36	5,825,254	10/1998	Lee			
/DHM/	AG36	5,834,985	11/1998	Sundegård			
/DHM/	AH36	5,864,754	01/1999	Hotto			
/DHM/	AI36	5,881,375	03/1999	Bonds			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

/DHM/	AN	<u>36</u>	"Sampling Loops Lock Sources to 23 Ghz," <i>Microwaves & RF</i> , Penton Publishing, p. 212 (September 1990).
/DHM/	AO	<u>36</u>	Sasikumar, M. <i>et al.</i> , "Active Compensation in the Switched-Capacitor Biquad," <i>Proceedings of the IEEE</i> , IEEE, Vol. 71, No. 8, pp. 1008-1009 (August 1983).
/DHM/	AP	<u>36</u>	Saul, P.H., "A GaAs MESFET Sample and Hold Switch," <i>Fifth European Solid State Circuits Conference-ESSCIRC 79</i> , IEE, pp. 5-7 (1979).
/DHM/	AQ	<u>36</u>	Shen, D.H. <i>et al.</i> , "A 900-MHZ RF Front-End with Integrated Discrete-Time Filtering," <i>IEEE Journal of Solid-State Circuits</i> , IEEE Solid-State Circuits Council, Vol. 31, No. 12, pp. 1945-1954 (December 1996).
/DHM/	AR	<u>36</u>	Shen, X.D. and Vilar, E., "Anomalous transhorizon propagation and meteorological processes of a multilink path," <i>Radio Science</i> , American Geophysical Union, Vol. 30, No. 5, pp. 1467-1479 (September-October 1995).

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	FIRST NAMED INVENTOR Gregory S. Rawlins	
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/DHM/	AA37	5,892,380	04/1999	Quist			
/DHM/	AB37	5,894,239	04/1999	Bonaccio <i>et al.</i>			
/DHM/	AC37	5,896,562	04/1999	Heinonen			
/DHM/	AD37	5,900,747	05/1999	Brauns			
/DHM/	AE37	5,901,054	05/1999	Leu <i>et al.</i>			
/DHM/	AF37	5,901,187	05/1999	linuma			
/DHM/	AG37	5,901,344	05/1999	Opas			
/DHM/	AH37	5,901,347	05/1999	Chambers <i>et al.</i>			
/DHM/	AI37	5,901,348	05/1999	Bang <i>et al.</i>			

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	AJ						Yes No
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	AL						Yes No
	AM						Yes No

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/DHM/	AN	37	Shen, X. and Tawfik, A.N., "Dynamic Behaviour of Radio Channels Due to Trans-Horizon Propagation Mechanisms," <i>Electronics Letters</i> , IEE, Vol. 29, No. 17, pp. 1582-1583 (August 19, 1993).
/DHM/	AO	37	Shen, X. <i>et al.</i> , "Modeling Enhanced Spherical Diffraction and Troposcattering on a Transhorizon Path with aid of the parabolic Equation and Ray Tracing Methods," <i>IEE Colloquium on Common modeling techniques for electromagnetic wave and acoustic wave propagation</i> , IEE, pp. 4/1-4/7 (March 8, 1996).
/DHM/	AP	37	Shen, X. and Vilar, E., "Path loss statistics and mechanisms of transhorizon propagation over a sea path," <i>Electronics Letters</i> , IEE, Vol. 32, No. 3, pp. 259-261 (February 1, 1996).
/DHM/	AQ	37	Shen, D. <i>et al.</i> , "A 900 MHZ Integrated Discrete-Time Filtering RF Front-End," <i>IEEE International Solid State Circuits Conference</i> , IEEE, Vol. 39, pp. 54-55 and 417 (February 1996).
/DHM/	AR	37	Spillard, C. <i>et al.</i> , "X-Band Tropospheric Transhorizon Propagation Under Differing Meteorological Conditions," <i>Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation</i> , IEE, pp. 451-455 (April 4-7, 1989).

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/DHM/	AA38	5,901,349	05/1999	Guegnaud <i>et al.</i>			
/DHM/	AB38	5,903,178	05/1999	Miyatsuji <i>et al.</i>			
/DHM/	AC38	5,903,187	05/1999	Claverie <i>et al.</i>			
/DHM/	AD38	5,903,196	05/1999	Salvi <i>et al.</i>			
/DHM/	AE38	5,903,421	05/1999	Furutani <i>et al.</i>			
/DHM/	AF38	5,903,553	05/1999	Sakamoto <i>et al.</i>			
/DHM/	AG38	5,903,595	05/1999	Suzuki			
/DHM/	AH38	5,903,609	05/1999	Kool <i>et al.</i>			
/DHM/	AI38	5,903,827	05/1999	Kennan <i>et al.</i>			

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	AM						Yes No

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/DHM/	AN	<u>38</u>	Stafford, K.R. <i>et al.</i> , "A Complete Monolithic Sample/Hold Amplifier," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-9, No. 6, pp. 381-387 (December 1974).
/DHM/	AO	<u>38</u>	Staruk, W. Jr. <i>et al.</i> , "Pushing HF Data Rates," <i>Defense Electronics</i> , EW Communications, Vol. 17, No. 5, pp. 211, 213, 215, 217, 220 and 222 (May 1985).
/DHM/	AP	<u>38</u>	Stephenson, A.G., "Digitizing multiple RF signals requires an optimum sampling rate," <i>Electronics</i> , McGraw-Hill, pp. 106-110 (March 27, 1972).
/DHM/	AQ	<u>38</u>	Sugarman, R., "Sampling Oscilloscope for Statistically Varying Pulses," <i>The Review of Scientific Instruments</i> , American Institute of Physics, Vol. 28, No. 11, pp. 933-938 (November 1957).
/DHM/	AR	<u>38</u>	Sylvain, M., "Experimental probing of multipath microwave channels," <i>Radio Science</i> , American Geophysical Union, Vol. 24, No. 2, pp. 160-178 (March-April 1989).

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/DHM/	AA39	5,903,854	05/1999	Abe <i>et al.</i>			
/DHM/	AB39	5,905,449	05/1999	Tsubouchi <i>et al.</i>			
/DHM/	AC39	5,907,149	05/1999	Marckini			
/DHM/	AD39	5,907,197	05/1999	Faulk			
/DHM/	AE39	5,911,116	06/1999	Nosswitz			
/DHM/	AF39	5,911,123	06/1999	Shaffer <i>et al.</i>			
/DHM/	AG39	5,914,622	06/1999	Inoue			
/DHM/	AH39	5,920,199	07/1999	Sauer			
/DHM/	AI39	5,943,370	08/1999	Smith			

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/DHM/	AN	39	Takano, T., "NOVEL GaAs Pet Phase Detector Operable To Ka Band," <i>IEEE MT-S Digest</i> , IEEE, pp. 381-383 (1984).
/DHM/	AO	39	Tan, M.A., "Biquadratic Transconductance Switched-Capacitor Filters," <i>IEEE Transactions on Circuits and Systems- I: Fundamental Theory and Applications</i> , IEEE Circuits and Systems Society, Vol. 40, No. 4, pp. 272-275 (April 1993).
/DHM/	AP	39	Tanaka, K. <i>et al.</i> , "Single Chip Multisystem AM Stereo Decoder IC," <i>IEEE Transactions on Consumer Electronics</i> , IEEE Consumer Electronics Society, Vol. CE-32, No. 3, pp. 482-496 (August 1986).
/DHM/	AQ	39	Tawfik, A.N., "Amplitude, Duration and Predictability of Long Hop Trans-Horizon X-band Signals Over the Sea," <i>Electronics Letters</i> , IEE, Vol. 28, No. 6, pp. 571-572 (March 12, 1992).
/DHM/	AR	39	Tawfik, A.N. and Vilar, E., "Correlation of Transhorizon Signal Level Strength with Localized Surface Meteorological Parameters," <i>Eighth International Conference on Antennas and Propagation</i> , Electronics Division of the IEE, pp. 335-339 (March 30- April 2, 1993).

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/DHM/	AA40	4,017,798	04/1977	Gordy <i>et al.</i>			
/DHM/	AB40	4,032,847	06/1977	Unkauf			
/DHM/	AC40	4,253,067	02/1981	Caples <i>et al.</i>			
/DHM/	AD40	4,393,395	07/1983	Hacke <i>et al.</i>			
/DHM/	AE40	4,816,704	03/1989	Fiori, Jr.			
/DHM/	AF40	4,841,265	06/1989	Watanabe <i>et al.</i>			
/DHM/	AG40	4,943,974	07/1990	Motamedi			
/DHM/	AH40	5,115,409	05/1992	Stepp			
/DHM/	AI40	5,353,306	10/1994	Yamamoto			

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	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

/DHM/	AN	<u>40</u>	Tawfik, A.N. and Vilar, E., "Dynamic Structure of a Transhorizon Signal at X-band Over a Sea Path," <i>Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation</i> , IEE, pp. 446-450 (April 4-7, 1989).
/DHM/	AO	<u>40</u>	Tawfik, A.N. and Vilar, E., "Statistics of Duration and Intensity of Path Loss in a Microwave Transhorizon Sea-Path," <i>Electronics Letters</i> , IEE, Vol. 26, No. 7, pp. 474-476 (March 29, 1990).
/DHM/	AP	<u>40</u>	Tawfik, A.N. and Vilar, E., "X-Band Transhorizon Measurements of CW Transmissions Over the Sea- Part 1: Path Loss, Duration of Events, and Their Modeling," <i>IEEE Transactions on Antennas and Propagation</i> , IEEE Antennas and Propagation Society, Vol. 41, No. 11, pp. 1491-1500 (November 1993).
/DHM/	AQ	<u>40</u>	Temes, G.C. and Tsividis, T., "The Special Section on Switched-Capacitor Circuits," <i>Proceedings of the IEEE</i> , IEEE, Vol. 71, No. 8, pp. 915-916 (August 1983).
/DHM/	AR	<u>40</u>	Thomas, G.B., <i>Calculus and Analytic Geometry</i> , Third Edition, Addison-Wesley Publishing, pp. 119-133 (1960).

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/DHM/	AA41	5,515,014	05/1996	Troutman			
/DHM/	AB41	5,563,550	10/1996	Toth			
/DHM/	AC41	5,574,755	11/1996	Persico			
/DHM/	AD41	5,604,592	02/1997	Kotidis <i>et al.</i>			
/DHM/	AE41	5,638,396	06/1997	Klimek			
/DHM/	AF41	5,675,392	10/1997	Nayebi <i>et al.</i>			
/DHM/	AG41	5,694,096	12/1997	Ushiroku <i>et al.</i>			
/DHM/	AH41	5,757,870	05/1998	Miya <i>et al.</i>			
/DHM/	AI41	5,768,323	06/1998	Kroeger <i>et al.</i>			

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	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

/DHM/	AN	41	Tomassetti, Q., "An Unusual Microwave Mixer," 16 th European Microwave Conference, Microwave Exhibitions and Publishers, pp. 754-759 (September 8-12, 1986).
/DHM/	AO	41	Tortoli, P. <i>et al.</i> , "Bidirectional Doppler Signal Analysis Based on a Single RF Sampling Channel," <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society, Vol. 41, No. 1, pp. 1-3 (January 1984).
/DHM/	AP	41	Tsividis, Y. and Antognetti, P. (Ed.), <i>Design of MOS VLSI Circuits for Telecommunications</i> , Prentice-Hall, p. 304 (1985).
/DHM/	AQ	41	Tsividis, Y., "Principles of Operation and Analysis of Switched-Capacitor Circuits," <i>Proceedings of the IEEE</i> , IEEE, Vol. 71, No. 8, pp. 926-940 (August 1983).
/DHM/	AR	41	Tsurumi, H. and Maeda, T., "Design Study on a Direct Conversion Receiver Front-End for 280 MHz, 900 MHz, and 2.6 Ghz Band Radio Communication Systems," 41 st IEEE Vehicular Technology Conference, IEEE Vehicular Technology Society, pp. 457-462 (May 19-22, 1991).

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/DHM/	AA42	5,770,985	06/1998	Ushiroku <i>et al.</i>			
/DHM/	AB42	5,778,022	07/1998	Walley			
/DHM/	AC42	5,812,546	09/1998	Zhou <i>et al.</i>			
/DHM/	AD42	5,818,869	10/1998	Miya <i>et al.</i>			
/DHM/	AE42	5,844,449	12/1998	Abeno <i>et al.</i>			
/DHM/	AF42	5,872,446	02/1999	Cranford, Jr. <i>et al.</i>			
/DHM/	AG42	5,909,447	06/1999	Cox <i>et al.</i>			
/DHM/	AH42	5,933,467	08/1999	Sehier <i>et al.</i>			
/DHM/	AI42	5,952,895	09/1999	McCune, Jr. <i>et al.</i>			

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	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

/DHM/	AN	42	Valdmanis, J.A. <i>et al.</i> , "Picosecond and Subpicosecond Optoelectronics for Measurements of Future High Speed Electronic Devices," <i>IEDM Technical Digest</i> , IEEE, pp. 597-600 (December 5-7, 1983).
/DHM/	AO	42	van de Kamp, M.M.J.L., "Asymmetric signal level distribution due to tropospheric scintillation," <i>Electronics Letters</i> , IEE, Vol. 34, No. 11, pp. 1145-1146 (May 28, 1998).
/DHM/	AP	42	Vasseur, H. and Vanhoenacker, D., "Characterization of tropospheric turbulent layers from radiosonde data," <i>Electronics Letters</i> , IEE, Vol. 34, No. 4, pp. 318-319 (February 19, 1998).
/DHM/	AQ	42	Verdone, R., "Outage Probability Analysis for Short-Range Communication Systems at 60 Ghz in ATT Urban Environments," <i>IEEE Transactions on Vehicular Technology</i> , IEEE Vehicular Technology Society, Vol. 46, No. 4, pp. 1027-1039 (November 1997).
/DHM/	AR	42	Vlerira-Ribeiro, S.A., <i>Single-IF DECT Receiver Architecture using a Quadrature Sub-Sampling Band-Pass Sigma-Delta Modulator</i> , Thesis for Degree of Master's of Engineering, Carleton University, UMI Dissertation Services, pp. 1-180 (April 1995).

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/DHM/	AA43	5,960,033	09/1999	Shibano <i>et al.</i>			
/DHM/	AB43	6,041,073	03/2000	Davidovici <i>et al.</i>			
/DHM/	AC43	6,054,889	04/2000	Kobayashi			
/DHM/	AD43	6,084,922	07/2000	Zhou <i>et al.</i>			
/DHM/	AE43	6,125,271	09/2000	Rowland <i>et al.</i>			
/DHM/	AF43	6,147,340	11/2000	Levy			
/DHM/	AG43	6,147,763	11/2000	Steinlechner			
/DHM/	AH43	6,150,890	11/2000	Damgaard <i>et al.</i>			
/DHM/	AI43	5,126,682	06/1992	Weinberg <i>et al.</i>			

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	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

/DHM/	AN	43	Vilar, E. <i>et al.</i> , "A Comprehensive/Selective MM-Wave Satellite Downlink Experiment on Fade Dynamics," <i>Tenth International Conference on Antennas and Propagation</i> , Electronics Division of the IEE, pp. 2.98-2.101 (April 14-17, 1997).
/DHM/	AO	43	Vilar, E. <i>et al.</i> , "A System to Measure LOS Atmospheric Transmittance at 19 Ghz," <i>AGARD Conference Proceedings No. 346: Characteristics of the Lower Atmosphere Influencing Radio Wave Propagation</i> , AGARD, pp. 8-1 - 8-16 (October 4-7, 1983).
/DHM/	AP	43	Vilar, E. and Smith, H., "A Theoretical and Experimental Study of Angular Scintillations in Earth Space Paths," <i>IEEE Transactions on Antennas and Propagation</i> , IEEE, Vol. AP-34, No. 1, pp. 2-10 (January 1986).
/DHM/	AQ	43	Vilar, E. <i>et al.</i> , "A Wide Band Transhorizon Experiment at 11.6 Ghz," <i>Eighth International Conference on Antennas and Propagation</i> , Electronics Division of the IEE, pp. 441-445 (March 30- April 2, 1993).
/DHM/	AR	43	Vilar, E. and Matthews, P.A., "Amplitude Dependence of Frequency in Oscillators," <i>Electronics Letters</i> , IEE, Vol. 8, No. 20, pp. 509-511 (October 5, 1972).

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/DHM/	AA44	5,841,811	11/1998	Song			
/DHM/	AB44	4,051,475	09/1977	Campbell			
/DHM/	AC44	5,953,642	09/1999	Feldtkeller <i>et al.</i>			
/DHM/	AD44	4,653,117	03/1987	Heck			
/DHM/	AE44	5,859,878	01/1999	Phillips <i>et al.</i>			
/DHM/	AF44	5,894,496	04/1999	Jones			
/DHM/	AG44	5,915,278	06/1999	Mallick			
/DHM/	AH44	6,028,887	02/2000	Harrison <i>et al.</i>			
/DHM/	AI44	6,081,691	06/2000	Renard <i>et al.</i>			

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/DHM/	AN	<u>44</u>	Vilar, E. <i>et al.</i> , "An experimental mm-wave receiver system for measuring phase noise due to atmospheric turbulence," <i>Proceedings of the 25th European Microwave Conference</i> , Nexus House, pp. 114-119 (1995).
/DHM/	AO	<u>44</u>	Vilar, E. and Burgueño, A., "Analysis and Modeling of Time Intervals Between Rain Rate Exceedances in the Context of Fade Dynamics," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 39, No. 9, pp. 1306-1312 (September 1991).
/DHM/	AP	<u>44</u>	Vilar, E. <i>et al.</i> , "Angle of Arrival Fluctuations in High and Low Elevation Earth Space Paths," <i>Fourth International Conference on Antennas and Propagation (ICAP 85)</i> , Electronics Division of the IEE, pp. 83-88 (April 16-19, 1985).
/DHM/	AQ	<u>44</u>	Vilar, E., "Antennas and Propagation: A Telecommunications Systems Subject," <i>Electronics Division Colloquium on Teaching Antennas and Propagation to Undergraduates</i> , IEE, pp. 7/1-7/6 (March 8, 1988).
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1744.1380000	APPLICATION NO. 10/719,058
	FIRST NAMED INVENTOR Gregory S. Rawlins	
	FILING DATE November 24, 2003	GROUP To Be Assigned

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/DHM/	AB45	6,144,236	11/2000	Vice <i>et al.</i>			
/DHM/	AC45	6,144,846	11/2000	Durec			
/DHM/	AD45	6,175,728 B1	01/2001	Mitama			
/DHM/	AE45	5,705,949	01/1998	Alalyunas <i>et al.</i>			
/DHM/	AF45	5,883,548	03/1999	Assard <i>et al.</i>			
/DHM/	AG45	4,484,143	11/1984	French <i>et al.</i>			
/DHM/	AH45	5,841,324	11/1998	Williams			
/DHM/	AI45	4,855,894	08/1989	Asahi <i>et al.</i>			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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/DHM/	AB46	5,801,654	09/1998	Traylor			
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/DHM/	AF46	4,334,324	06/1982	Hoover			
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/DHM/	AN	46	Vilar, E. and Matthews, P.A., "Importance of Amplitude Scintillations in Millimetric Radio Links," <i>Proceedings of the 4th European Microwave Conference</i> , Microwave Exhibitions and Publishers, pp. 202-206 (September 10-13, 1974).
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/DHM/	AB47	5,157,687	10/1992	Tymes			
/DHM/	AC47	5,945,660	08/1999	Nakasuji <i>et al.</i>			
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/DHM/	AE47	6,091,941	07/2000	Moriyama <i>et al.</i>			
/DHM/	AF47	6,098,886	08/2000	Swift <i>et al.</i>			
/DHM/	AG47	6,215,475 B1	04/2001	Meyerson <i>et al.</i>			
/DHM/	AH47	6,049,706	04/2000	Cook <i>et al.</i>			
/DHM/	AI47	6,061,551	05/2000	Sorrells <i>et al.</i>			

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	AM						Yes No

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/DHM/	AB48	6,091,940	07/2000	Sorrells <i>et al.</i>			
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/DHM/	AD48	6,353,735 B1	03/2002	Sorrells <i>et al.</i>			
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/DHM/	AF48	5,628,055	05/1997	Stein			
/DHM/	AG48	5,678,220	10/1997	Fournier			
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/DHM/	AN	48	Vilar, E. <i>et al.</i> , "Wideband Characterization of Scattering Channels," <i>Tenth International Conference on Antennas and Propagation</i> , Electronics Division of the IEE, pp. 2.353-2.358 (April 14-17, 1997).
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U.S. PATENT DOCUMENTS

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/DHM/	AB49	6,421,534 B1	07/2002	Cook <i>et al.</i>			
/DHM/	AC49	6,330,244 B1	12/2001	Swartz <i>et al.</i>			
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/DHM/	AE49	4,470,145	09/1984	Williams			
/DHM/	AF49	5,600,680	02/1997	Mishima <i>et al.</i>			
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	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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	FIRST NAMED INVENTOR Gregory S. Rawlins	
	FILING DATE November 24, 2003	GROUP To Be Assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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/DHM/	AB50	3,246,084	04/1966	Kryter			
/DHM/	AC50	3,702,440	11/1972	Moore			
/DHM/	AD50	3,767,984	10/1973	Shinoda <i>et al.</i>			
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/DHM/	AF50	4,220,977	09/1980	Yamanaka			
/DHM/	AG50	5,016,242	05/1991	Tang			
/DHM/	AH50	5,937,013	08/1999	Lam <i>et al.</i>			
/DHM/	AI50	6,014,551	01/2000	Pesola <i>et al.</i>			

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	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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/DHM/	AB51	6,085,073	07/2000	Palermo <i>et al.</i>			
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/DHM/	AE51	5,483,695	01/1996	Pardoen			
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/DHM/	AG51	6,560,301 B1	05/2003	Cook <i>et al.</i>			
/DHM/	AH51	6,098,046	08/2000	Cooper <i>et al.</i>			
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	AJ						Yes No
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/DHM/	AG52	6,327,313 B1	12/2001	Traylor <i>et al.</i>			
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/DHM/	AI52	5,793,817	08/1998	Wilson			

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/DHM/	AB53	6,313,685 B1	11/2001	Rabii			
/DHM/	AC53	3,614,627	10/1971	Runyan <i>et al.</i>			
/DHM/	AD53	3,940,697	02/1976	Morgan			
/DHM/	AE53	4,016,366	04/1977	Kurata			
/DHM/	AF53	4,045,740	08/1977	Baker			
/DHM/	AG53	4,115,737	09/1978	Hongu <i>et al.</i>			
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	AK						Yes No
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	AM						Yes No

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/DHM/	AQ	<u>53</u>	Partial Translation of Japanese Patent Publication No. 58-7903, 3 pages (January 17, 1983- Date of publication of application).
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1744.1380000	APPLICATION NO. 10/719,058
	FIRST NAMED INVENTOR Gregory S. Rawlins	
	FILING DATE November 24, 2003	GROUP To Be Assigned

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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/DHM/	AB54	5,483,600	01/1996	Werrbach			
/DHM/	AC54	6,011,435	01/2000	Takeyabu <i>et al.</i>			
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/DHM/	AF54	6,178,319 B1	01/2001	Kashima			
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/DHM/	AH54	3,736,513	05/1973	Wilson			
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/DHM/	AN	<u>54</u>	English-language Abstract of Japanese Patent Publication No. 60-058705, from http://www1.ipdl.jpo.go.jp , 2 Pages (April 4, 1985 - Date of publication of application).
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/DHM/	AD55	5,438,329	08/1995	Gastouniotis <i>et al.</i>			
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/DHM/	AC56	6,687,493 B1	02/2004	Sorrells <i>et al.</i>			
/DHM/	AD56	6,694,128 B1	02/2004	Sorrells <i>et al.</i>			
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/DHM/	AF56	5,955,992	09/1999	Shattil			
/DHM/	AG56	5,999,561	12/1999	Naden <i>et al.</i>			
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/DHM/	AB57	5,490,176	02/1996	Peltier			
/DHM/	AC57	5,970,053	10/1999	Schick <i>et al.</i>			
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/DHM/	AE57	6,600,911 B1	07/2003	Morishige <i>et al.</i>			
/DHM/	AF57	5,179,731	01/1993	Trankle <i>et al.</i>			
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/DHM/	AB58	5,012,245	04/1991	Scott <i>et al.</i>			
/DHM/	AC58	5,422,909	06/1995	Love <i>et al.</i>			
/DHM/	AD58	5,440,311	08/1995	Gallagher <i>et al.</i>			
/DHM/	AE58	5,926,513	07/1999	Suominen <i>et al.</i>			
/DHM/	AF58	5,995,030	11/1999	Cabler			
/DHM/	AG58	6,047,026	04/2000	Chao <i>et al.</i>			
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/DHM/	AB59	6,018,553	01/2000	Sanielevici <i>et al.</i>			
/DHM/	AC59	6,317,589 B1	11/2001	Nash			
/DHM/	AD59	5,058,107	10/1991	Stone <i>et al.</i>			
/DHM/	AE59	5,757,858	05/1998	Black <i>et al.</i>			
/DHM/	AF59	6,531,979 B1	03/2003	Hynes			
/DHM/	AG59	6,018,262	01/2000	Noro <i>et al.</i>			
/DHM/	AH59	4,761,798	08/1988	Grisowid, Jr. <i>et al.</i>			
/DHM/	AI59	5,982,315	11/1999	Bazarjani <i>et al.</i>			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AK						Yes No
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/DHM/	AN	59	Simoni, A. <i>et al.</i> , "A Single-Chip Optical Sensor with Analog Memory for Motion Detection," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. 30, No. 7, pp. 800-806 (July 1995).
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/DHM/	AA60	6,459,721 B1	10/2002	Mochizuki <i>et al.</i>			
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/DHM/	AD60	6,363,262 B1	03/2002	McNicol			
/DHM/	AE60	6,697,603 B1	02/2004	Lovinggood <i>et al.</i>			
/DHM/	AF60	5,282,222	01/1994	Fattouche <i>et al.</i>			
/DHM/	AG60	5,949,827	09/1999	DeLuca <i>et al.</i>			
/DHM/	AH60	6,014,176	01/2000	Nayebi <i>et al.</i>			
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/DHM/	AF61	4,132,952	01/1979	Hongu <i>et al.</i>			
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/DHM/	AC63	4,250,458	02/1981	Richmond <i>et al.</i>			
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/DHM/	AE63	6,084,465	07/2000	Dasgupta			
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/DHM/	AC64	5,834,979	11/1998	Yatsuka			
/DHM/	AD64	6,798,351 B1	09/2004	Sorrells <i>et al.</i>			
/DHM/	AE64	6,813,485 B2	11/2004	Sorrells <i>et al.</i>			
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	AM						Yes No

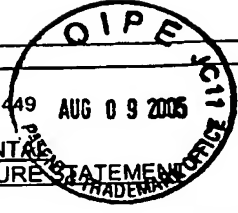
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

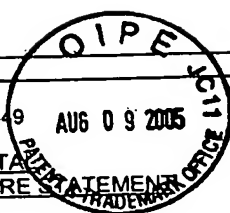
FORM PTO-1449		AUG 09 2005		Page 1 of 5			
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1744.1380000		APPLICATION NO. 10/719,058			
		INVENTORS RAWLINS <i>et al.</i>		ART UNIT 2193			
		FILING DATE November 24, 2003					
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
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	AG						
/DHM/	AH64	5,982,329	11/1999	Pittman <i>et al.</i>			
/DHM/	AI64	6,208,636 B1	03/2001	Tawil <i>et al.</i>			
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
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	AM23	DE 692 21 098 T2	01/1998	DE			No
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EXAMINER INITIAL	DOC. REF.	CITATION					
	AN						
	AO						
/DHM/	AP59	Deboo, Gordon J., <i>Integrated Circuits and Semiconductor Devices</i> , 2nd Edition, McGraw-Hill, Inc., pp. 41-45 (1977).					
/DHM/	AQ59	Hellwarth, G.A. and Jones, G.D., "Automatic Conditioning of Speech Signals," <i>IEEE Transactions on Audio and Electroacoustics</i> , Vol. AU-16, No. 2, pp. 169-179 (June 1968).					
/DHM/	AR59	English Abstract for German Patent No. DE 692 21 098 T2, 1 page, data supplied from the espacenet.					
EXAMINER /David Mälzahn/					DATE CONSIDERED 05/17/2007		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

				Page 2 of 5			
FORM PTO-1449 AUG 09 2005 SUPPLEMENTAL STATEMENT INFORMATION DISCLOSURE				ATTY. DOCKET NO. 1744.1380000			
				APPLICATION NO. 10/719,058			
				INVENTORS RAWLINS <i>et al.</i>			
FILING DATE November 24, 2003				ART UNIT 2193			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/DHM/	AA65	3,614,630	10/1971	Rorden			
/DHM/	AB65	6,836,650 B2	12/2004	Sorrells <i>et al.</i>			
/DHM/	AC65	5,844,868	12/1998	Takahashi <i>et al.</i>			
/DHM/	AD65	6,385,439 B1	05/2002	Hellberg			
/DHM/	AE65	6,741,139 B2	05/2004	Pleasant <i>et al.</i>			
/DHM/	AF65	6,823,178 B2	11/2004	Pleasant <i>et al.</i>			
/DHM/	AG65	6,850,742 B2	02/2005	Fayyaz			
/DHM/	AH65	6,853,690 B1	02/2005	Sorrells <i>et al.</i>			
/DHM/	AI65	4,789,837	12/1988	Ridgers			
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EXAMINER					DATE CONSIDERED		
/David Malzahn/					05/17/2007		
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FORM PTO-1449		AUG 09 2005		Page 3 of 5			
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1744.1380000		APPLICATION NO. 10/719,058			
		INVENTORS RAWLINS <i>et al.</i>					
		FILING DATE November 24, 2003		ART UNIT 2193			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/DHM/	AA66	5,634,207	05/1997	Yamaji <i>et al.</i>			
/DHM/	AB66	5,642,071	06/1997	Sevenhans <i>et al.</i>			
/DHM/	AC66	6,211,718 B1	04/2001	Souetinov			
/DHM/	AD66	6,212,369 B1	04/2001	Avasarala			
/DHM/	AE66	6,308,058 B1	10/2001	Souetinov <i>et al.</i>			
/DHM/	AF66	6,633,194 B2	10/2003	Arnborg <i>et al.</i>			
/DHM/	AG66	2001/0036818 A1	11/2001	Dobrovolny			
/DHM/	AH66	6,873,836 B1	03/2005	Sorrells <i>et al.</i>			
/DHM/	AI66	6,879,817 B1	04/2005	Sorrells <i>et al.</i>			
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EXAMINER /David Malzahn/		DATE CONSIDERED 05/17/2007					

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				Page 4 of 5			
FORM PTO-1449 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1744.1380000			
				APPLICATION NO. 10/719,058			
				INVENTORS RAWLINS <i>et al.</i>			
				FILING DATE November 24, 2003			
				ART UNIT 2193			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/DHM/	AA67	6,057,714	05/2000	Andrys <i>et al.</i>			
/DHM/	AB67	2003/0081781 A1	05/2003	Jensen <i>et al.</i>			
/DHM/	AC67	5,994,689	11/1999	Charrier			
/DHM/	AD67	6,512,544 B1	01/2003	Merrill <i>et al.</i>			
/DHM/	AE67	6,628,328 B1	09/2003	Yokouchi <i>et al.</i>			
/DHM/	AF67	6,801,253 B1	10/2004	Yonemoto <i>et al.</i>			
/DHM/	AG67	3,737,778	06/1973	Van Gerwen <i>et al.</i>			
/DHM/	AH67	4,286,283	08/1981	Clemens			
/DHM/	AI67	4,241,451	12/1980	Maixner <i>et al.</i>			
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	AL						Yes No
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EXAMINER INITIAL	DOC. REF.	CITATION					
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	AO						
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EXAMINER /David Malzahn/					DATE CONSIDERED 05/17/2007		
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FORM PTO-1449

AUG 09 2005

SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

1744.1380000

INVENTORS

RAWLINS *et al.*

FILING DATE

November 24, 2003

APPLICATION NO.

10/719,058

ART UNIT

2193

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/DHM/	AA68	5,014,130	05/1991	Heister <i>et al.</i>			
/DHM/	AB68	5,390,215	02/1995	Anita <i>et al.</i>			
/DHM/	AC68	5,805,460	09/1998	Greene <i>et al.</i>			
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
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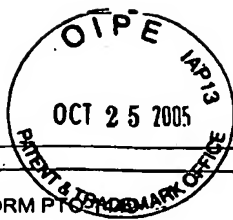
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DATE CONSIDERED

05/17/2007

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FORM PTCD 100-1

**SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.
1744.1380000

APPLICATION NO.
10/719,058

FIRST NAMED INVENTOR
Gregory S. RAWLINS

FILING DATE
November 24, 2003

ART UNIT
2193

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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/DHM/	AD68	6,882,194 B2	04/2005	Belot <i>et al.</i>			
/DHM/	AE68	6,892,062 B2	05/2005	Lee <i>et al.</i>			
/DHM/	AF68	6,917,796 B2	07/2005	Setty <i>et al.</i>			
/DHM/	AG68	6,920,311 B2	07/2005	Rofougaran <i>et al.</i>			
/DHM/	AH68	5,062,122	10/1991	Pham <i>et al.</i>			
/DHM/	AI68	6,182,011 B1	01/2001	Ward			

FOREIGN PATENT DOCUMENTS

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	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
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EXAMINER /David Malzahn/

DATE CONSIDERED
05/17/2007

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FORM PTO-249

**SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.
1744.1380000APPLICATION NO.
10/719,058FIRST NAMED INVENTOR
Gregory S. RAWLINSFILING DATE
November 24, 2003ART UNIT
2193**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/DHM/	AA69	6,639,939 B1	10/2003	Naden <i>et al.</i>			
/DHM/	AB69	5,787,125	07/1998	Mittel			
/DHM/	AC69	5,878,088	03/1999	Knutson <i>et al.</i>			
/DHM/	AD69	6,215,828	04/2001	Signell <i>et al.</i>			
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AM						Yes No

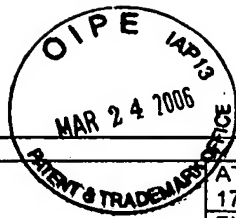
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EXAMINER /David Malzahn/

DATE CONSIDERED
05/17/2007

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FORM PTO-1449

THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.1380000APPLICATION NO.
10/719,058FIRST NAMED INVENTOR
Gregory S. RAWLINSFILING DATE
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
/DHM/	AE69	5,703,584	12/1997	Hill			
/DHM/	AF69	5,887,001	03/1999	Russell			
/DHM/	AG69	6,298,065 B1	10/2001	Dombkowski <i>et al.</i>			
/DHM/	AH69	2002/0080728 A1	06/2002	Sugar <i>et al.</i>			
/DHM/	AI69	2002/0163921 A1	11/2002	Ethridge <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
/DHM/	AJ24	WO 98/53556 A2	11/1998	PCT			N/A
/DHM/	AK24	DT 1936252	01/1971	DT			Yes (Doc. AO60)
/DHM/	AL24	JP 62-12381	01/1987	JP			No
/DHM/	AM24	JP 4-154227	05/1992	JP			No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
/DHM/	AN60	Gaudiosi, J., "Retailers will bundle Microsoft's Xbox with games and peripherals," <i>Video Store Magazine</i> , Volume 23, Issue 36, pg. 8, 2 pages (September 2-8, 2001).
/DHM/	AO60	English-language Translation of German Patent Publication No. DT 1936252, translation provided by Transperfect Translations, 12 pages (January 28, 1971 - Date of publication of application).
/DHM/	AP60	English-language Abstract of Japanese Patent Publication No. JP 62-12381, data supplied by the espacenet, 1 page (January 21, 1987 - Date of publication of application).
/DHM/	AQ60	English-language Abstract of Japanese Patent Publication No. JP 4-154227, data supplied by the espacenet, 1 page (May 27, 1992 - Date of publication of application).
/DHM/	AR60	English-language Abstract of Japanese Patent Publication No. JP 6-284038, data supplied by the espacenet, 1 page (October 7, 1994 - Date of publication of application).

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FORM PTO-1449

THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

1744.1380000

APPLICATION NO.

10/719,058

FIRST NAMED INVENTOR

Gregory S. RAWLINS

FILING DATE

November 24, 2003

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/DHM/	AA70	6,963,734 B2	11/2005	Sorrells <i>et al.</i>			
/DHM/	AB70	6,005,506	12/1999	Bazarjani <i>et al.</i>			
/DHM/	AC70	6,438,366 B1	08/2002	Lindfors <i>et al.</i>			
/DHM/	AD70	5,196,806	03/1993	Ichihara			
/DHM/	AE70	5,410,195	04/1995	Ichihara			
/DHM/	AF70	6,404,823 B1	06/2002	Grange <i>et al.</i>			
/DHM/	AG70	6,618,579 B1	09/2003	Smith <i>et al.</i>			
/DHM/	AH70	2001/0015673 A1	08/2001	Yamashita <i>et al.</i>			
/DHM/	AI70	2003/0045263 A1	03/2003	Wakayama <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
/DHM/	AJ25	JP 6-284038	10/1994	JP			No
/DHM/	AK25	JP 10-96778	04/1998	JP			No
/DHM/	AL25	JP 11-98205	04/1999	JP			No
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
/DHM/	AN61	English-language Abstract of Japanese Patent Publication No. JP 10-96778, data supplied by the espacenet, 1 page (April 14, 1998 - Date of publication of application).
/DHM/	AO61	English-language Abstract of Japanese Patent Publication No. JP 11-98205, data supplied by the espacenet, 1 page (April 9, 1999 - Date of publication of application).
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EXAMINER

/David Malzahn/

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FORM PTO-1449

THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.1380000APPLICATION NO.
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2193

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/DHM/	AA71	6,975,848 B2	12/2005	Rawlins <i>et al.</i>			
/DHM/	AB71	6,404,758 B1	06/2002	Wang			
/DHM/	AC71	6,909,739 B1	06/2005	Eerola <i>et al.</i>			
/DHM/	AD71	6,910,015 B2	06/2005	Kawai			
/DHM/	AE71	3,719,903	03/1973	Goodson			
/DHM/	AF71	4,591,930	05/1986	Baumeister			
/DHM/	AG71	7,006,805 B1	02/2006	Sorrells <i>et al.</i>			
/DHM/	AH71	7,010,286 B2	03/2006	Sorrells <i>et al.</i>			
/DHM/	AI71	7,010,559 B2	03/2006	Rawlins <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AL						Yes No
	AM						Yes No

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EXAMINER

/David Malzahn/

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FORM PTO-1449

THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.1380000APPLICATION NO.
10/719,058FIRST NAMED INVENTOR
Gregory S. RAWLINSFILING DATE
November 24, 2003ART UNIT
2193

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/DHM/	AA72	5,131,014	07/1992	White			
/DHM/	AB72	6,393,070 B1	05/2002	Reber			
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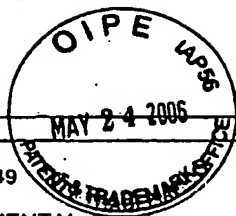
EXAMINER

/David Malzahn/

DATE CONSIDERED

05/17/2007

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FORM PTO-1449

FOURTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.1380000APPLICATION NO.
10/719,058FIRST NAMED INVENTOR
Gregory S. RAWLINSFILING DATE
November 24, 2003ART UNIT
2193

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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/DHM/	AC72	7,016,663 B2	03/2006	Sorrells <i>et al.</i>			
/DHM/	AD72	3,694,754	09/1972	Baltzer			
/DHM/	AE72	4,931,716	06/1990	Jovanovic <i>et al.</i>			
/DHM/	AF72	3,617,898	11/1971	Janning, Jr.			
/DHM/	AG72	3,764,921	10/1973	Huard			
/DHM/	AH72	4,158,149	06/1979	Otofuji			
/DHM/	AI72	4,380,828	04/1983	Moon			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AK						Yes No
	AL						Yes No
	AM						Yes No

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EXAMINER INITIAL	DOC. REF.	CITATION
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	AP	
	AQ	
	AR	

EXAMINER /David Malzahn/

DATE CONSIDERED
05/17/2007

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FORM PTO-1449 FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1744.1380000		APPLICATION NO. 10/719,058	
				FIRST NAMED INVENTOR Gregory S. RAWLINS			
				FILING DATE November 24, 2003		ART UNIT 2193	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/DHM/	AA73	4,562,414	12/1985	Linder <i>et al.</i>			
/DHM/	AB73	4,814,649	03/1989	Young			
/DHM/	AC73	4,845,389	07/1989	Pyndiah <i>et al.</i>			
/DHM/	AD73	5,172,019	12/1992	Naylor <i>et al.</i>			
/DHM/	AE73	5,263,198	11/1993	Geddes <i>et al.</i>			
/DHM/	AF73	5,551,076	08/1996	Bonn			
/DHM/	AG73	5,633,610	05/1997	Maekawa <i>et al.</i>			
/DHM/	AH73	7,027,786 B1	04/2006	Smith <i>et al.</i>			
/DHM/	AI73	7,039,372 B1	05/2006	Sorrells <i>et al.</i>			
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
EXAMINER INITIAL	DOC. REF.	CITATION					
	AN						
	AO						
	AP						
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	AR						
EXAMINER /David Malzahn/					DATE CONSIDERED 05/17/2007		

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FORM PTO-1449 FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1744.1380000		APPLICATION NO. 10/719,058	
				FIRST NAMED INVENTOR Gregory S. RAWLINS			
				FILING DATE November 24, 2003		ART UNIT 2193	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/DHM/	AA74	6,591,310 B1	07/2003	Johnson			
/DHM/	AB74	6,963,626 B1	11/2005	Shaeffer <i>et al.</i>			
/DHM/	AC74	4,811,422	03/1989	Kahn			
/DHM/	AD74	5,825,257	10/1998	Klymyshyn <i>et al.</i>			
/DHM/	AE74	5,986,600	11/1999	McEwan			
/DHM/	AF74	6,865,399 B2	03/2005	Fujioka <i>et al.</i>			
/DHM/	AG74	2006/0039449 A1	02/2006	Fontana <i>et al.</i>			
/DHM/	AH74	5,847,594	12/1998	Mizuno			
/DHM/	AI74	2005/0185741 A1	08/2005	Rawlins <i>et al.</i>			
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
EXAMINER INITIAL	DOC. REF.	CITATION					
	AN						
	AO						
	AP						
	AQ						
	AR						
EXAMINER /David Malzahn/					DATE CONSIDERED 05/17/2007		

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INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/DHM/	AA75	2005/0193049 A1	09/2005	Rawlins <i>et al.</i>			
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
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	AP	
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EXAMINER /David Malzahn/

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**FIFTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.
1744.1380000APPLICATION NO.
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2193**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
/DHM/	AB75	3,641,442	02/1972	Boucher			
/DHM/	AC75	5,140,699	08/1992	Kozak			
/DHM/	AD75	7,050,058 B2	05/2006	Sorrells <i>et al.</i>			
/DHM/	AE75	7,054,296 B1	05/2006	Sorrells <i>et al.</i>			
/DHM/	AF75	7,065,162 B1	06/2006	Sorrells <i>et al.</i>			
/DHM/	AG75	2003/0149579 A1	08/2003	Begemann <i>et al.</i>			
/DHM/	AH75	5,063,387	11/1991	Mower			
/DHM/	AI75	5,535,402	07/1996	Leibowitz <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
/DHM/	AM25	JP 61-232706	10/1986	JP			No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
/DHM/	AP61	English-language Abstract of Japanese Patent Publication No. JP 61-232706, data supplied by the espacenet, 1 page (October 17, 1986 - Date of publication of application).
/DHM/	AQ61	English-language Abstract of Japanese Patent Publication No. JP 9-171399, data supplied by the espacenet, 1 page (June 30, 1997 - Date of publication of application).
/DHM/	AR61	English-language Abstract of Japanese Patent Publication No. JP 10-41860, data supplied by the espacenet, 1 page (February 13, 1998 - Date of publication of application).

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/DHM/	AA76	6,512,785 B1	01/2003	Zhou <i>et al.</i>			
/DHM/	AB76	6,567,483 B1	05/2003	Dent <i>et al.</i>			
/DHM/	AC76	6,775,684 B1	08/2004	Toyoyama <i>et al.</i>			
/DHM/	AD76	4,740,792	04/1988	Sagey <i>et al.</i>			
/DHM/	AE76	5,239,687	08/1993	Chen			
/DHM/	AF76	5,552,789	09/1996	Schuermann			
/DHM/	AG76	5,905,433	05/1999	Wortham			
/DHM/	AH76	6,647,270 B1	11/2003	Himmelstein			
/DHM/	AI76	6,034,566	03/2000	Ohe			

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EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
/DHM/	AJ26	JP 9-171399	06/1997	JP			No
/DHM/	AK26	JP 10-41860	02/1998	JP			No
	AL						Yes No
	AM						Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

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FORM PTO-1449 FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1744.1380000		APPLICATION NO. 10/719,058	
				FIRST NAMED INVENTOR Gregory S. RAWLINS			
				FILING DATE November 24, 2003		ART UNIT 2193	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/DHM/	AA77	6,313,700 B1	11/2001	Nishijima <i>et al.</i>			
/DHM/	AB77	6,959,178 B2	10/2005	Macedo <i>et al.</i>			
/DHM/	AC77	6,999,747 B2	02/2006	Su			
/DHM/	AD77	2004/0125879 A1	07/2004	Jaussi <i>et al.</i>			
/DHM/	AE77	7,072,390 B1	07/2006	Sorrells <i>et al.</i>			
/DHM/	AF77	7,072,427 B2	07/2006	Rawlins <i>et al.</i>			
/DHM/	AG77	7,076,011 B2	07/2006	Cook <i>et al.</i>			
/DHM/	AH77	7,082,171 B1	07/2006	Johnson <i>et al.</i>			
/DHM/	AI77	7,085,335 B2	08/2006	Rawlins <i>et al.</i>			
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
EXAMINER INITIAL	DOC. REF.	CITATION					
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EXAMINER					DATE CONSIDERED		
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FORM PTO-1449 SIXTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1744.1380000		APPLICATION NO. 10/719,058	
				FIRST NAMED INVENTOR Gregory S. RAWLINS		ART UNIT 2193	
				FILING DATE November 24, 2003			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/DHM/	AA78	3,739,282	06/1973	Bruch <i>et al.</i>			
/DHM/	AB78	4,439,787	03/1984	Mogl <i>et al.</i>			
/DHM/	AC78	4,866,441	09/1989	Conway <i>et al.</i>			
/DHM/	AD78	4,885,671	12/1989	Pell			
/DHM/	AE78	5,164,985	11/1992	Nysen <i>et al.</i>			
/DHM/	AF78	5,734,683	03/1998	Hulkko <i>et al.</i>			
/DHM/	AG78	5,918,167	06/1999	Tiller <i>et al.</i>			
/DHM/	AH78	6,445,726 B1	09/2002	Gharpurey			
/DHM/	AI78	6,560,451 B1	05/2003	Somayajula			
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
/DHM/	AL26	JP 10-173563	06/1998	JP			Yes (Doc. AN62)
	AM						Yes No
NON-PATENT LITERATURE DOCUMENTS							
EXAMINER INITIAL	DOC. REF.	CITATION					
/DHM/	AN62	English-language Computer Translation of Japanese Patent Publication No. JP 10-173563, provided by the JPO, 10 pages (June 26, 1998 - Date of publication of application) and cited in U.S. Patent Application Ser. No. 10/305,299, directed to related subject matter.					
/DHM/	AO62	What is I/Q Data?, printed September 16, 2006, from http://zone.ni.com , 8 pages (Copyright 2003).					
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	AQ						
	AR						
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/DHM/	AA79	4,143,322	03/1979	Shimamura			
/DHM/	AB79	2,530,824	11/1950	King			
/DHM/	AC79	7,107,028 B2	09/2006	Sorrells <i>et al.</i>			
/DHM/	AD79	7,110,435 B1	09/2006	Sorrells <i>et al.</i>			
/DHM/	AE79	7,110,444 B1	09/2006	Sorrells <i>et al.</i>			
/DHM/	AF79	6,973,476 B1	12/2005	Naden <i>et al.</i>			
/DHM/	AG79	5,834,987	11/1998	Dent			
/DHM/	AH79	RE37,138 E	04/2001	Dent			
/DHM/	AI79	6,441,694 B1	08/2002	Turcotte <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

NON-PATENT LITERATURE DOCUMENTS

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/DHM/	AA80	6,892,057 B2	05/2005	Nilsson			
/DHM/	AB80	6,741,650 B1	05/2004	Palnchaud <i>et al.</i>			
/DHM/	AC80	6,441,659 B1	08/2002	Demone			
/DHM/	AD80	2002/0132642 A1	09/2002	Hlines <i>et al.</i>			
	AE						
	AF						
	AG						
	AH						
	AI						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
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